

# INTERNATIONAL SEARCH REPORT

Int'l Application No  
PCT/IB 03/05428

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 A61B19/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/071315 A (KONINKL PHILIPS ELECTRONICS NV) 12 September 2002 (2002-09-12) the whole document	1,2,21, 22
X	US 6 348 928 B1 (JEONG SEOK HWA) 19 February 2002 (2002-02-19) the whole document	1,2,21, 22
X	US 5 250 888 A (YU HANG DU) 5 October 1993 (1993-10-05) the whole document	1,2,21, 22
X	DE 37 37 547 A (TOURNAY OMER) 19 May 1988 (1988-05-19) the whole document	1,2
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"Z" document member of the same patent family

Date of the actual completion of the international search

22 March 2004

Date of mailing of the international search report

02.07.2004

Name and mailing address of the ISA

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## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-5, 13-22

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

information on patent family members

Int'l Application No  
PCT/IB03/05428

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02071315	A	12-09-2002	US 2002149613 A1 CN 1457468 T EP 1368781 A2 WO 02071315 A2	17-10-2002 19-11-2003 10-12-2003 12-09-2002
US 6348928	B1	19-02-2002	KR 2000032231 A AU 769216 B2 AU 5938199 A CN 1257235 A DE 19954250 A1 GB 2343760 A ,B JP 3370033 B2 JP 2000175129 A TW 466877 B	05-06-2000 22-01-2004 18-05-2000 21-06-2000 25-05-2000 17-05-2000 27-01-2003 23-06-2000 01-12-2001
US 5250888	A	05-10-1993	KR 9407012 Y1 DE 4202785 A1 GB 2253497 A ,B JP 4112284 U	07-10-1994 13-08-1992 09-09-1992 30-09-1992
DE 3737547	A	19-05-1988	FR 2606915 A1 DE 3737547 A1	20-05-1988 19-05-1988
US 6181983	B1	30-01-2001	DE 19800552 A1 FR 2764838 A1	28-01-1999 24-12-1998